

(12) APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Office

[Insignia of the WIPO]

(43) International publication date
27 November 2003 (27.11.2003)

PCT

(10) International Publication Number
WO 03/098715 A1(51) International Patent Classification¹: H01L 51/20

(21) International Application No.: PCT/AT03/00131

(22) International filing date: 6 May 2003 (06.05.2003)

(25) Language of submission: German

(26) Language of publication: German

(30) Priority data:
A 775/2002 22 May 2002 (22.05.2002)

AT

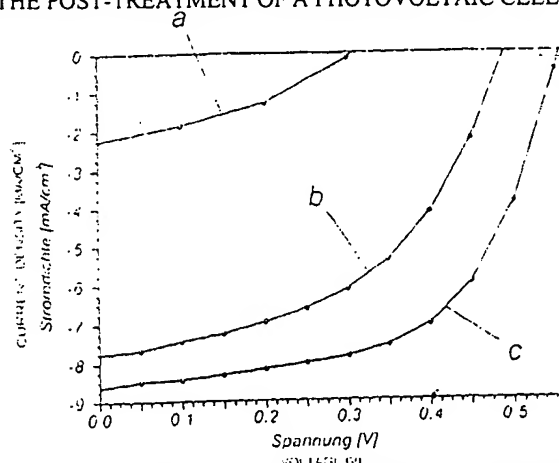
(71) Applicant(s) (for all designated countries except the
US): KONARKA AUSTRIA FORSCHUNGS-
UND ENTWICKLUNGS GMBH [AT/AT];
Gruberstrasse 40-42, A-4020 Linz (AT).

(72) Inventor(s); and

(75) Inventor(s)/applicant(s) (US only): SARICIFTCI,
Serdar [AT/AT]; Pachunayrstraße 135, A-4040 Linz
(AT). GLÖTZL, Erhard [AT/AT]; Karl-Kautsky-
Weg 26, A-4040 Linz (AT). DENK, Patrick
[AT/AT]; Lüfteneggerstrasse 8/5/29, A-4020 Linz
(AT). RITTBERGER, Roman [AT/AT];
Zülowstrasse 5, A-4040 Linz (AT). PADINGER,
Franz [AT/AT]; Wiener Strasse 46, A-4490 St.
Florian (AT).(74) Attorneys: HÜBSCHER, Gerhard, et al.;
Spittelwiese 7, A-4020 Linz (AT).(81) Designated countries (nationally): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,
OM, PH, PL, PT, RO, RU,

[Continued on next page]

(54) Title: METHOD FOR THE POST-TREATMENT OF A PHOTOVOLTAIC CELL



(57) **Abstract:** The invention relates to a method for the post-treatment of a photovoltaic cell comprising a photoactive layer composed of two molecular components, specifically an electron donor and an electron acceptor, particularly a conjugated polymer component and a fullerene component, and two metal electrodes provided on either side of the photoactive layer, the photovoltaic cell being subjected to heat treatment above the glass transition temperature of the electron donor for a predetermined treatment time. To increase efficiency, it is proposed that the heat treatment of the photovoltaic cell be carried out for at least a portion of the treatment time under the influence of an electric field induced by a field voltage applied to the electrodes of the photovoltaic cell and exceeding the no-load voltage thereof.

WO 03/015189 A1

, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

Published:

-- with International Search Report.

- (84) Designated countries (regionally): ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, MI, ML, MR, NE, SN, TD, TG).

For the meanings of the two-letter codes and other abbreviations, see the explanation ("Guidance Notes on Codes and Abbreviations") provided at the beginning of each regular edition of the PCT gazette.